

Huajun Zheng

List of Publications by Year in descending order

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56
papers

2,543
citations

218592

26
h-index

197736

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all docs

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docs citations

56
times ranked

3155
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional NiCo ₂ O ₄ @NiWO ₄ core-shell nanowire arrays for high performance supercapacitors. Journal of Materials Chemistry A, 2017, 5, 1028-1034.	5.2	264
2	Photo/Electrochemical Applications of Metal Sulfide/TiO ₂ Heterostructures. Advanced Energy Materials, 2020, 10, 1902355.	10.2	236
3	Protruding Pt single-sites on hexagonal ZnIn ₂ S ₄ to accelerate photocatalytic hydrogen evolution. Nature Communications, 2022, 13, 1287.	5.8	198
4	Porous Palladium Nanoflowers that Have Enhanced Methanol Electro-Oxidation Activity. Journal of Physical Chemistry C, 2009, 113, 1001-1005.	1.5	153
5	Ultrathin ZnIn ₂ S ₄ nanosheets with active (110) facet exposure and efficient charge separation for cocatalyst free photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2020, 265, 118616.	10.8	132
6	Facile Synthesis of CoWO ₄ Nanosheet Arrays Grown on Nickel Foam Substrates for Asymmetric Supercapacitors. ChemElectroChem, 2016, 3, 1490-1496.	1.7	98
7	Self-Powered Flexible TiO ₂ Fibrous Photodetectors: Heterojunction with P3HT and Boosted Responsivity and Selectivity by Au Nanoparticles. Advanced Functional Materials, 2020, 30, 2001604.	7.8	81
8	Inert basal plane activation of two-dimensional ZnIn ₂ S ₄ via Ni atom doping for enhanced co-catalyst free photocatalytic hydrogen evolution. Journal of Materials Chemistry A, 2020, 8, 13376-13384.	5.2	79
9	In-situ synthesize multi-walled carbon nanotubes@MnO ₂ nanoflake core-shell structured materials for supercapacitors. Journal of Power Sources, 2012, 216, 508-514.	4.0	75
10	Layer-by-layer assembly and electrochemical properties of sandwiched film of manganese oxide nanosheet and carbon nanotube. Carbon, 2009, 47, 1534-1542.	5.4	73
11	Biomimetic CNT@TiO ₂ composite with enhanced photocatalytic properties. Chemical Engineering Journal, 2015, 281, 60-68.	6.6	65
12	Construction of self-supported hierarchical NiCo-S nanosheet arrays for supercapacitors with ultrahigh specific capacitance. Nanoscale, 2020, 12, 13811-13821.	2.8	58
13	Preparation of nano-crystalline tungsten carbide thin film electrode and its electrocatalytic activity for hydrogen evolution. Electrochemistry Communications, 2005, 7, 1045-1049.	2.3	57
14	Aligned Ni-Co-Mn oxide nanosheets grown on conductive substrates as binder-free electrodes for high capacity electrochemical energy storage devices. Electrochimica Acta, 2016, 220, 296-303.	2.6	56
15	Carbon nanomaterials with sp ² or/and sp ³ hybridization in energy conversion and storage applications: A review. Energy Storage Materials, 2020, 26, 349-370.	9.5	55
16	One-pot synthesis of CoFe ₂ O ₄ /rGO hybrid hydrogels with 3D networks for high capacity electrochemical energy storage devices. RSC Advances, 2018, 8, 8607-8614.	1.7	52
17	Black Phosphorus Quantum Dot-Sensitized TiO ₂ Nanotube Arrays with Enriched Oxygen Vacancies for Efficient Photoelectrochemical Water Splitting. ACS Sustainable Chemistry and Engineering, 2020, 8, 15906-15914.	3.2	52
18	Multilayered films of cobalt oxyhydroxide nanowires/manganese oxide nanosheets for electrochemical capacitor. Journal of Power Sources, 2010, 195, 680-683.	4.0	45

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19	Hydrothermal Synthesis of 3D Porous Structure Bi ₂ WO ₆ /Reduced Graphene Oxide Hydrogels for Enhancing Supercapacitor Performance. ChemElectroChem, 2017, 4, 577-584.	1.7	40
20	Thiol functionalized mesoporous silicas for selective adsorption of precious metals. Minerals Engineering, 2012, 35, 20-26.	1.8	36
21	Electrochemical behavior of carbon-nanotube/cobalt oxyhydroxide nanoflake multilayer films. Journal of Power Sources, 2009, 193, 930-934.	4.0	35
22	Rational design of a sandwiched structure Ni(OH) ₂ nanohybrid sustained by amino-functionalized graphene quantum dots for outstanding capacitance. Applied Surface Science, 2019, 480, 727-737.	3.1	35
23	Molecules interface engineering derived external electric field for effective charge separation in photoelectrocatalysis. Nano Energy, 2017, 42, 90-97.	8.2	33
24	Carbon quantum dot sensitized Pt@Bi ₂ WO ₆ /FTO electrodes for enhanced photoelectro-catalytic activity of methanol oxidation. RSC Advances, 2017, 7, 26943-26951.	1.7	31
25	Pseudohomogeneous metallic catalyst based on tungstate-decorated amphiphilic carbon quantum dots for selective oxidative scission of alkenes to aldehyde. Scientific Reports, 2021, 11, 4411.	1.6	30
26	Etching treatment of vertical WO ₃ nanoplates as a photoanode for enhanced photoelectrochemical performance. RSC Advances, 2016, 6, 68204-68210.	1.7	27
27	Machine Learning Guided Dopant Selection for Metal Oxide-Based Photoelectrochemical Water Splitting: The Case Study of Fe ₂ O ₃ and CuO. Advanced Materials, 2022, 34, e2106776.	11.1	26
28	Carbon Quantum Dots sensitized Vertical WO ₃ Nanoplates with Enhanced Photoelectrochemical Properties. ChemistrySelect, 2016, 1, 2772-2777.	0.7	25
29	Hierarchically structured WO ₃ @"CNT@TiO ₂ NS composites with enhanced photocatalytic activity. Journal of Materials Chemistry A, 2015, 3, 5467-5473.	5.2	23
30	WO ₃ /ZnIn ₂ S ₄ heterojunction photoanodes grafting silane molecule for efficient photoelectrochemical water splitting. Electrochimica Acta, 2020, 361, 137017.	2.6	23
31	Biomass upgrading coupled with H ₂ production <i>via</i> a nonprecious and versatile Cu-doped nickel nanotube electrocatalyst. Journal of Materials Chemistry A, 2022, 10, 10181-10191.	5.2	23
32	Nanorod tungsten carbide thin film and its electrocatalytic activity for nitromethane electroreduction. Electrochemistry Communications, 2006, 8, 977-981.	2.3	22
33	Studies on mechanism of carbon nanotube and manganese oxide nanosheet self-sustained thin film for electrochemical capacitor. Solid State Ionics, 2010, 181, 1690-1696.	1.3	22
34	Synthesis of ordered mesoporous carbon/tungsten carbides as a replacement of platinum-based electrocatalyst for methanol oxidation. Electrochimica Acta, 2013, 108, 486-490.	2.6	22
35	Ultrafine CoP _x Nanoparticles Anchored on Nitrogen Doped Reduced Graphene Oxides for Superior Hydrogenation in Alkaline Media. Advanced Materials Interfaces, 2018, 5, 1800515.	1.9	22
36	One-step solvothermal synthesis of feather duster-like CNT@WO ₃ as high-performance electrode for supercapacitor. Materials Letters, 2019, 246, 129-132.	1.3	22

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37	Amphiphilic Carbon Quantum Dots as a Bridge to a Pseudohomogeneous Catalyst for Selective Oxidative Cracking of Alkenes to Aldehydes: A Nonmetallic Oxidation System. ACS Applied Materials & Interfaces, 2020, 12, 31360-31371.	4.0	22
38	TiO ₂ @PDA inorganic-organic core-shell skeleton supported Pd nanodots for enhanced electrocatalytic hydrodechlorination. Journal of Hazardous Materials, 2022, 435, 128998.	6.5	20
39	H ⁺ -TiO ₂ /C/MnO ₂ nanocomposite materials for high-performance supercapacitors. Journal of Nanoparticle Research, 2015, 17, 1.	0.8	19
40	Copper doped CoS _x @Co(OH) ₂ hierarchical mesoporous nanosheet arrays as binder-free electrodes for superior supercapacitors. Journal of Alloys and Compounds, 2022, 911, 165115.	2.8	18
41	Polyporous C@WC _{1-x} composite and its electrocatalytic activity for p-nitrophenol reduction. Chinese Chemical Letters, 2011, 22, 497-500.	4.8	16
42	Manganese doping to boost the capacitance performance of hierarchical Co ₉ S ₈ @Co(OH) ₂ nanosheet arrays. Green Energy and Environment, 2022, 7, 1289-1297.	4.7	16
43	Dramatic Responsivity Enhancement Through Concentrated H ₂ SO ₄ Treatment on PEDOT:PSS/TiO ₂ Heterojunction Fibrous Photodetectors. Small, 2021, 17, e2101674.	5.2	15
44	Bimetallic sites and coordination effects: electronic structure engineering of NiCo-based sulfide for 5-hydroxymethylfurfural electrooxidation. Catalysis Science and Technology, 2022, 12, 3817-3825.	2.1	15
45	Unique core-shell Co ₂ (OH) ₂ CO ₃ @MOF nanoarrays with remarkably improved cycling life for high performance pseudocapacitors. Electrochimica Acta, 2022, 412, 140142.	2.6	14
46	Synergistic effect of silane and graphene oxide for enhancing the photoelectrochemical water oxidation performance of WO ₃ NS arrays. Electrochimica Acta, 2018, 292, 322-330.	2.6	12
47	Ultrathin 2D flower-like CoP@C with the active (211) facet for efficient electrocatalytic water splitting. CrystEngComm, 2021, 23, 1777-1784.	1.3	9
48	Ultrasound-assisted pseudohomogeneous tungstate catalyst for selective oxidation of alcohols to aldehydes. Scientific Reports, 2022, 12, 3367.	1.6	9
49	A method to fabricate nanorod films on aluminum lattice membrane by magnetron sputtering. Thin Solid Films, 2008, 516, 4983-4987.	0.8	8
50	Highly selective adsorption of organic dyes onto tungsten trioxide nanowires. Research on Chemical Intermediates, 2016, 42, 5639-5651.	1.3	7
51	Synthesis, characterization and catalytic activity toward methanol oxidation of electrocatalyst Pt ₄₊ -NH ₂ -MCM-41. Electrochimica Acta, 2012, 83, 160-165.	2.6	6
52	CNTs/mesostructured silica core-shell nanowires via interfacial surfactant templating. Science Bulletin, 2009, 54, 516-520.	4.3	4
53	A Facile Synthesis of Tungsten Carbide/Carbon Nanocomposite as a Non-Platinum Electrocatalyst for Methanol Oxidation. Journal of Nanoscience and Nanotechnology, 2016, 16, 7579-7583.	0.9	4
54	Cooperative effect of bimetallic MOF-derived CoNi(OH) ₂ @NiCo ₂ S ₄ nanocomposite electrocatalysts with boosted oxygen evolution activity. Nanotechnology, 2022, 33, 265701.	1.3	2

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55	Facile construction TiO ₂ /ZnIn ₂ S ₄ /Zn _{0.4} Ca _{0.6} In ₂ S ₄ ternary hetero-structure photo-anode with enhanced photo-electrochemical water-splitting performance. <i>Surfaces and Interfaces</i> , 2021, 26, 101323.	1.5	1
56	Hydrothermal Synthesis and Amperometric Determination of Hydrogen Peroxide of Highly-Dispersed MnO ₂ Nanofibers. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2012, 28, 630-634.	2.2	0